CIVIL TECH[redacted]BS
Accredited by NABL as per ISO/[redacted]: 2005
5, 1st Cross, Srinivasa Colony, Mission R[redacted]alore - 560027
Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com
T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP.

28th May 2015

Dear Sir,

Sub: Testing of Bituminous Concrete.

As requested, the required tests were carried out for the Bituminous Concrete samples supplied by you, for the work of **'Improvements to Main road and cross roads at Devappa Layout in ward no. 11, (Kuvempunagara) Vidyaranyapura Sub Division'.**

Please find the enclosed Test Report of the above.

Thanking You,
For Civil Tech Labs

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to Main road and cross roads at Devappa Layout in ward no. 11, (Kuvempunagara) Vidyaranyapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Date of Testing	28/05/2015
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	**100**	**Satisfies the requirements**
13.2	79-100	**97.4**	
9.5	70-88	**84.6**	
4.75	53-71	**62.3**	
2.36	42-58	**47.5**	
1.18	34-48	**38.5**	
0.6	26-38	**32.6**	
0.3	18-28	**20.5**	
0.15	12-20	**18.4**	
0.075	4-10	**6.8**	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS

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TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to Main road and cross roads at Devappa Layout in ward no. 11, (Kuvempunagara) Vidyaranyapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Date of Testing	28/05/2015
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	**100**	**Satisfies the requirements**
13.2	79-100	**98.3**	
9.5	70-88	**85.6**	
4.75	53-71	**63.5**	
2.36	42-58	**48.2**	
1.18	34-48	**37.4**	
0.6	26-38	**31.5**	
0.3	18-28	**21.4**	
0.15	12-20	**17.4**	
0.075	4-10	**7.2**	

Note:

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Lab Incharge
Civil Tech Labs

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TEST REPORT

TEST ON DETERMINATION OF BITUMEN CONTENT ON BITUMINOUS CONCRETE MIX-GRADE 2

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to Main road and cross roads at Devappa Layout in ward no. 11, (Kuvempunagara) Vidyaranyapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Date of Testing	28/05/2015

A)

Sl. No.	Test	Test Method	Technical Reference
1	Extraction of mineral aggregate	**Test Method A (Centrifuge Method)**	**ASTM: D2172/ D2172M-11**
2	Determination of amount of mineral matter/fines in the extract	**Ashing Method**	

B)

Specification: As Per MORTH (4th Revision) Table 500-18, Bitumen Content for BC Grade-2 is 5% to 7%

Sl. No.	Description	Values
1	Weight of bituminous mixture before extraction test, **W_1 g**	**2000.00**
2	Weight of mineral aggregate obtained from centrifuge extractor, **W_2 g**	**1874.52**
3	Weight of mineral matter in the total volume of extract (by ashing), **W_3 g**	**13.42**
4	Total weight of aggregate in the bituminous mixture, **W_4 g = (W_2 +W_3) g**	**1887.94**
5	Total weight of Bitumen extracted from the mixture, **W_5 g = (W_1-W_4) g**	**112.06**
6	Bitumen content in %, **(W_5/W_1) %**	**5.60**

Remarks	**Satisfies the requirement.**

Note:

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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP.

20th May 2015

Dear Sir,

Sub: Testing of Wet Mix Macadam.

As requested, the required tests were carried out for Wet Mix Macadam samples supplied by you, for the work of **'Improvements to Main road and cross roads at Devappa Layout in ward no. 11, (Kuvempunagara) Vidyaranyapura Sub Division'.**

Please find the enclosed Test Report of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON WMM MIX

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to Main road and cross roads at Devappa Layout in ward no. 11, (Kuvempunagara) Vidyaranyapura Sub Division.
Name of the Agency	M/s. K. R. I. D. L.
Date of Testing	20/05/2015
Reference	MORTH Table 400-11

IS Sieve Designation (mm)	% By Weight Passing IS Sieve	Actual % By Weight Passing IS Sieve	Remarks
53	100	100	**Satisfies Requirements**
45	95-100	98.9	
22.4	60-80	72.1	
11.2	40-60	53.8	
4.75	25-40	34.9	
2.36	15-30	22.7	
0.6	8-22	15.6	
0.075	0-8	6.1	

Note:

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3.Any correction invalidates this report.

4.The results are based on the test conducted on samples supplied by the client.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE